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9/11/2009

/M.A.M. / Duffield 2003-0207

IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

**Patent Application**

Inventor(s)	Nicolas G. Duffield	Serial No.	10/764,001
	Matthew Roughan	Filing Date	1/23/2004
	Subhabrata Sen	Examiner	Mark A. Mais
	Oliver Spatscheck		
Case Name	Duffield 2003-0207	Art Unit	2619
Title	A Statistical, Signature-Based Approach To IP Traffic Classification		

COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, VA 22313-1450

SIR:

AMENDMENT

In response to an Advisory Action dated 9/8/2009, please amend the above-identified application as follows:

IN THE CLAIMS:

1 – 31. (Canceled)

32. (New) A method of assigning active packets belonging to a class within a first class of service (CoS) of active Internet Protocol traffic in a first network to different QoS treatments in a second network comprising:

identifying said class within said first class CoS, wherein said first CoS is one of interactive application class, bulk data transfer application class, streaming application class, and transactional application class;

identifying a pre-selected set of IP packet attributes from a plurality of packet attributes, wherein said plurality of attributes are packet size, variance, root mean square, time series, source IP address, source IP port, destination IP address and destination IP port;

conduction training sessions on training IP traffic in said second network in order to obtain a corpus of data from which to get statistics to create a second CoS, wherein said second CoS is based on packet level characteristics, flow-level statistics, connection-level statistics, inter-flow/connection features, and multi-flow characteristics;

using said second CoS to create a QoS rule from a set of QoS rules, wherein QoS rules are IP source address and IP source port pairs from training IP traffic from said second network assigned to a class within said second CoS;

assigning said active packets from said first network to a QoS treatment from a set of QoS treatments in said second network, wherein said QoS treatment is the assignment of said QoS rule from a set of QoS rules from said second network to said active packets from said first network.

R E M A R K S

In the above-identified Advisory action the Examiner suggested a claim that would be allowable. To advance prosecution the claim suggested by the Examiner is added, and all other claims are canceled, thus placing the case in condition for allowance.

Reconsideration and allowance are respectfully solicited.

Respectfully,  
Nicolas G. Duffield  
Matthew Roughan  
Subhabrata Sen  
Oliver Spatscheck

Dated: 9/10/2009

By /Henry Brendzel/  
Henry T. Brendzel  
Reg. No. 26,844  
Phone (973) 467-2025  
Fax (973) 467-6589  
email [brendzel@comcast.net](mailto:brendzel@comcast.net)